## **Refine Search**

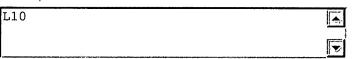
## Search Results -

Terms	Documents	
L4 and L9	2	

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:









Refine Search

## **Search History**

DATE: Friday, September 21, 2007 Purge Queries Printable Copy Create Case

Set Name Query side by side		Hit Count Set Name result set	
DB=US	SPT; PLUR=YES; OP=ADJ		
<u>L10</u>	l4 and L9	2	<u>L10</u>
<u>L9</u> .	reverse\$1 direction or opposite direction	399528	<u>L9</u>
<u>L8</u>	bore and groove and 15	38	<u>L8</u>
<u>L7</u>	groove\$1 bore and 15	0	<u>L7</u>
<u>L6</u>	helical and L5	. 7	<u>L6</u>
<u>L5</u>	ball catcher or ball arrester	162	<u>L5</u>
<u>L4</u>	ball seat and deform\$4 and 12	21	<u>L4</u>
<u>L3</u>	(ball near2 deformable) and seat and 12	0	<u>L3</u>
<u>L2</u>	sleeve and 11	890	<u>L2</u>
<u>L1</u>	circulation and wellbore	2318	L1

**END OF SEARCH HISTORY**